

Data Intake Report — G2M Cab Investment Case

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1. Overview of Datasets:

- **Cab_Data.csv**: Contains details of cab rides including transaction ID, date of travel (in Excel date format), company (Pink or Yellow), city, kilometers traveled, price charged, and cost of trip.
 - **Customer_ID.csv**: Contains demographic details for customers, including customer ID, gender, age, and monthly income.
 - **Transaction_ID.csv**: Maps each transaction to a customer and indicates the payment mode (Cash or Card).
 - **City.csv**: Lists U.S. cities, their populations, and total number of cab users per city.
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2. Data Cleaning Performed:

- Converted **Date of Travel** in **Cab_Data.csv** from Excel numeric format to standard datetime.
 - Converted **Population** and **Users** columns in **City.csv** from strings with commas to numeric (integers).
 - Verified that there were **no missing values or duplicate records** in any of the datasets.
 - Created a new column **Month** to analyze seasonal trends in cab usage.
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3. Merging Strategy:

- Merged **Cab_Data** and **Transaction_ID** using **Transaction ID** to add customer and payment details.
 - Then merged with **Customer_ID** using **Customer ID** to include demographic data.
 - Finally, merged with **City.csv** on the **City** field to include city-level data like population and total users.
 - Used a **left join** in the final merge to retain all cab ride records, even if city data was missing.
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4. Final Notes:

- The merged dataset covers the time period from **January 2016 to December 2018**.
- This final master dataset was used to explore profit, revenue, ride counts, and customer behavior by company, location, and time.
- All analysis and visualizations were performed using Python (Pandas, Seaborn, and Matplotlib) in a Jupyter/Colab notebook.